

## Material Safety Data Sheet

### 1. Product and Company Identification

<b>Product name</b>	<b>650 Waterproofing Membrane</b>
<b>Supplier/Manufacturer:</b>	Refer to the product technical data sheets
<b>In case of emergency</b>	Polyguard Products, Inc 3801 South Interstate 45 Ennis, TX 75119 Tel: (800) 541-4994
<b>In case of emergency</b>	CHEMTREC, US 1-800-424-9300 International 1-703-527-3887

### 2. Hazards identification

<b>Physical state:</b>	Solid
<b>Odor:</b>	Asphalt ( slight)
<b>Emergency Overview:</b>	<b>WARNING!</b> Product is not flammable but will burn under fire conditions. Eye contact with rubberized asphalt residue on hands can cause irritation. Skin contact with rubberized asphalt can cause irritation. Contact with heated material may casue thermal burns. Inhalation from heated product may cause irritation of nose, throat and respiratory system. Potential cancer hazard based on animal data.
<b>Potential acute health effects</b>	
<b>Inhalation:</b>	Slightly irritating to respiratory system if heated to a molten state.
<b>Ingestion:</b>	No known significant effects or critical hazards.
<b>Skin:</b>	Slightly irritating to the skin
<b>Eyes:</b>	No known significant effects or critical hazards.
<b>Potential chronic health effects</b>	
<b>Chronic effects:</b>	Contains materials that can cause target organ damage.
<b>Carcinogenicity:</b>	No known significant effects or critical hazards
<b>Mutagenicity:</b>	No known significant effects or critical hazards
<b>Teratogenicity:</b>	No known significant effects or critical hazards
<b>Developmental effects:</b>	No known significant effects or critical hazards
<b>Fertility effects:</b>	No known significant effects or critical hazards
<b>Target organs:</b>	Contains materials which cause damage to the folllowing organs: skin
<b>Over-exposure signs/symptoms:</b>	
<b>Inhalation:</b>	No specific data
<b>Ingestion:</b>	No specific data
<b>Skin:</b>	Adverse symptoms may include the following: Irritation Redness
<b>Eyes:</b>	No specific data
<b>Medical conditions aggravated by overexposure:</b>	Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over exposure to this product.
<b>See toxicological information ( Section 11)</b>	

### 3. Composition/information on ingredients

United States			
Name		CAS number	%
Petroleum Bitumen		8052-42-4	60-100
Calcium Carbonate		471-34-1	10- 30

Canada			
Name		CAS number	%
Petroleum Bitumen		8052-42-4	60-100
Calcium Carbonate		471-34-1	10- 30

Calcium Carbonate is not in its respirable form and is a constituent of the mixture.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. First aid measures

<b>Eye contact:</b>	Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
<b>Skin contact:</b>	Wash with soap and water. Get medical attention if symptoms occur.
<b>Inhalation:</b>	Not likely to occur under normal use. Possible exposure to toxic fumes if burned.
<b>Ingestion:</b>	Not likely to occur under normal use. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
<b>Protection of first-aiders:</b>	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth to mouth resuscitation.
<b>Notes to physician:</b>	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

### 5. Fire-fighting measures

<b>Flammability of the product:</b>	No specific fire or explosion hazard.
<b>Extinguishing media:</b>	
<b>Suitable</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>Not suitable</b>	None known
<b>Hazardous thermal decomposition products</b>	Decomposition products may include the following materials: Carbon Dioxide Carbon Monoxide Sulfur oxides Low MW hydrocarbons
<b>Special protective equipment:</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in a positive pressure mode.

### 6. Accidental release measures

<b>Personal precautions:</b>	No special measures required.
<b>Environmental precautions:</b>	Not applicable
<b>Methods for cleaning up</b>	Due to the physical nature of this product, spills are not possible.

## 7. Handling and storage

### Handling

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in your eyes or on your skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product and can be hazardous. Do not reuse containers.

### Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry cool and well ventilated area away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready to use. Do not store in unlabeled containers.

## 8. Exposure controls/personal protection

<b>Product name</b> <b>Petroleum Bitumen</b>	<b>United States</b> <b>Exposure limits</b> <b>ACGIH TLV ( United States, 1/2008)</b> TWA: 0.5 mg/m <sup>3</sup> 8 hour(s) Form: Fume <b>NIOSH REL ( United States, 12/2001)</b> CEIL: 5 mg/m <sup>3</sup> 15 minute(s). Form: Fume
<b>Calcium Carbonate</b>	<b>OSHA PEL ( United States, 11/2006)</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s) Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hour(s) Form: Total dust
<b>Product name</b> <b>Petroleum Bitumen</b>	<b>Canada</b> <b>Exposure limits</b> <b>CA Alberta Provincial (Canada, 10/2006).</b> 8 hrs OEL: 5 mg/m <sup>3</sup> 8 hour(s) Form: Fume 8 hrs OEL: 5 mg/m <sup>3</sup> 8 hour(s) <b>CA British Columbia Provincial (Canada, 7/2007).</b> TWA: 0.5 mg/m <sup>3</sup> 8 hour(s), (as benzene- soluble aerosol) 8 hour(s) Form: Inhalable fume. <b>CA Ontario Provincial (Canada, 3/2007).</b> <b>CA Quebec Provincial (Canada, 12/2006).</b> TWAEV: 5 mg/m <sup>3</sup> 8 hour(s). Form: dust
<b>Calcium Carbonate</b>	<b>CA Alberta Provincial (Canada, 10/2006).</b> 8 hrs OEL: 10 mg/m <sup>3</sup> 8 hour(s) <b>CA Ontario Provincial (Canada, 3/2007).</b> TWAEV: 10 mg/m <sup>3</sup> 8 hour(s) <b>CA Quebec Provincial (Canada, 12/2006).</b> TWAEV: 10 mg/m <sup>3</sup> 8 hour(s). Form: Total dust <b>CA Alberta Provincial (Canada, 10/2006).</b>

*Calcium Carbonate is not in its respirable form and is a constituent of the mixture. Consult local authorities for acceptable exposure limits.*

## 8. Exposure controls/personal protection

<b>Recommended monitoring procedure:</b>	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protection.
<b>Engineering measures:</b>	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
<b>Hygiene measure:</b>	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the work station location.
<b>Personal protection</b>	
<b>Eyes:</b>	Safety glasses
<b>Skin:</b>	Overall buttoned at the neck and wrist
<b>Respiratory:</b>	A respirator is not needed under normal and intended conditions of use.
<b>Hands:</b>	Chemical resistant gloves
<b>HMIS Code/Personal protective equipment</b>	B
<b>Environmental exposure control</b>	Emission from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

<b>Physical state:</b>	Solid
<b>Flash point</b>	Not Determined
<b>Odor</b>	Asphalt ( slight)
<b>VOC</b>	0 g/l
<b>Solubility:</b>	Insoluble in the following materials: cold water and hot water. Soluble in the following materials: Ketone and aromatic hydrocarbon solvents

## 10. Stability and reactivity

<b>Stability:</b>	The product is stable.
<b>Hazardous polymerization:</b>	Under normal conditions of storage and use, hazardous polymerization will not occur.
<b>Conditions to avoid:</b>	No specific data.
<b>Materials to avoid:</b>	Reactive or incompatible with the following materials: Oxidizing materials
<b>Hazardous decomposition:</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
<b>Conditions of reactivity:</b>	Slightly flammable in the presence of the following materials or conditions: open flames, sparks, and static discharge. Non flammable in the presence of the following materials: heat

## 11. Toxicological information

### Acute Toxicity

Product/ingredient name	Species	Dose	Result	Exposure
Calcium Carbonate	Rat	6450 mg/kg	LD 50 Oral	-
Inhalation	: Slightly irritating to respiratory system if product is heated to a molten state.			
Ingestion	: No known significant effects or critical hazards.			
Skin	: Slightly irritating to the skin.			
Eyes	: Slightly irritating to the eyes.			

### Carcinogenicity

#### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Petroleum Bitumen	A4	3	-	+	-	-

## 12. Ecological information

**Environmental effects:** No known significant or critical hazards.

### Aquatic ecotoxicity

Product/ingredient name	Test	Species	Exposures	Results
Calcium Carbonate	-	Fish	96 hours	Acute LC >56000000 ug /L
<b>Other adverse effects:</b>	No known significant effects or critical hazards			

## 13. Disposal considerations

### Waste disposal:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

### Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to SECTION 7; Handling and Storage and Section 8: Exposure Control / Personal Protection for additional handling information and protection of employees.

## 14. Transportation information

**AERG:** Not applicable

### Regulatory

#### Information:

**DOT/TDG/IMDG/IATA** Not regulated

## 15. Regulatory information

### United States

**U.S. Federal regulations:** **United States inventory (TSCA 8b):** All components are listed or exempted.  
**SARA 302/304/311/312 extremely hazardous substance:** No products were found.  
**SARA 302/304 Emergency Planning and Notification:** No products were found.  
**SARA 302/304/311/312 hazardous chemicals:** Petroleum bitumen, Styrene Polymer with 1, 3 Butadiene, and Calcium Carbonate.  
**SARA 311/312 MSDS Distribution- Chemical inventory –hazard identification**  
**Petroleum Bitumen:** Fire hazard, immediate (acute) health hazard, delayed (chronic) health hazard;  
**Styrene polymer with 1, 3 Butadiene:** immediate (acute) health hazard; **Calcium Carbonate:** Immediate (acute) health hazard.  
**Clean Water Act (CWA) 307:** No products were found.  
**Clean Water Act (CWA) 311:** No products were found  
**Clean Air Act (CAA) 112 accidental release prevention** No products were found.  
**Clean Air Act (CAA) 112 regulated flammable substances** No products were found.  
**Clean Air Act (CAA) 112 regulated toxic** No products were found.

### State regulations

**Connecticut Carcinogen Reporting:** None of the components are listed  
**Connecticut Hazardous Material Survey:** None of the components are listed.  
**Florida substances:** None of the components are listed  
**Illinois Chemical Safety Act:** None of the components are listed.  
**Illinois Toxic Substance Disclosure to Employee Act:** None of the components are listed  
**Louisiana Reporting:** None of the components are listed.  
**Louisiana Spill:** None of the components are listed  
**Massachusetts Spill:** None of the components are listed  
**Massachusetts Substances:** The following components are listed: Petroleum Bitumen  
**Michigan Critical Material:** None of the components are listed  
**Minnesota Hazardous Substance:** None of the components are listed.  
**New Jersey Hazardous Substance:** The following components are listed: Petroleum Bitumen  
**New Jersey Spill:** None of the components are listed.  
**New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.  
**New York Acutely Hazardous Substances:** None of the components are listed  
**New York Chemical Release Reporting:** None of the components are listed  
**Pennsylvania RTK Hazardous Substances:** The following components are listed: Petroleum Bitumen.  
**Rhode Island Hazardous Substances:** None of components are listed

### California Prop. 65

No product were found

## 15. Regulatory information

### Canada

**WHMIS (Canada)** Not controlled under WHMIS (Canada)

### Canadian lists

**CEPA Toxic substance:** None of the components are listed.  
**Canadian ARET:** None of the components are listed.  
**Canadian NPRI:** None of the components are listed  
**Alberta Designated Substances:** None of the components are listed  
**Ontario Designated Substances:** None of the components are listed  
**Quebec Designated Substances:** None of the components are listed  
All components are listed or exempted.

### Canada Inventory

**This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all the information required by the Controlled Product Regulations.**

### International regulations

**International list:** This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia ( AICS), in Europe ( EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

## 16. Other information

### Label Requirements

### Hazardous Material

### Information System ( USA)

MAY CAUSE SKIN IRRITATION.

### HAZARD RATING

<b>Health -</b>	<b>1</b>	4- Extreme
<b>Fire hazard-</b>	<b>0</b>	3- Serious
<b>Physical hazard</b>	<b>0</b>	2- Moderate
<b>Personal Protection</b>	<b>B</b>	1- Slight
		0- Minimal

See section 8 for more detailed information of personal protection.

### National Fire Protection

### Association ( USA)

<b>Health -</b>	<b>1</b>
<b>Flammability-</b>	<b>0</b>
<b>Instability</b>	<b>0</b>
<b>Special</b>	

### References

ANSI Z400.5, MSDS standard, 2004.-Manufacturer's Material Safety Data Sheet-29CFR Part 1910.1200 OSHA MSDS Requirements.-49 CFR Table List of Hazardous Materials, UN #, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No.2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "ingredient Disclosure List"- Canadian Transport of Dangerous Goods, Regulations and schedules, Clear Language version 2005.

### Date of Issue

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### Version

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